

Caspase 1 Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human
Published Species	Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Recombinant fragment corresponding to a region within amino acids 129 and 393 of Human Caspase 1
Form	Liquid
Concentration	1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	0.1M tris glycine, pH 7, with 10% glycerol
Contains	0.01% thimerosal
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2546818

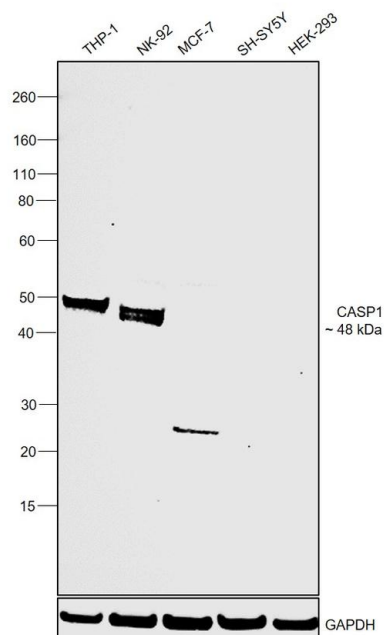
Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:3,000	1 Publication
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000	1 Publication
Immunocytochemistry (ICC/IF)	1:100-1:1,000	-

Product Specific Information

Recommended positive controls: A549.

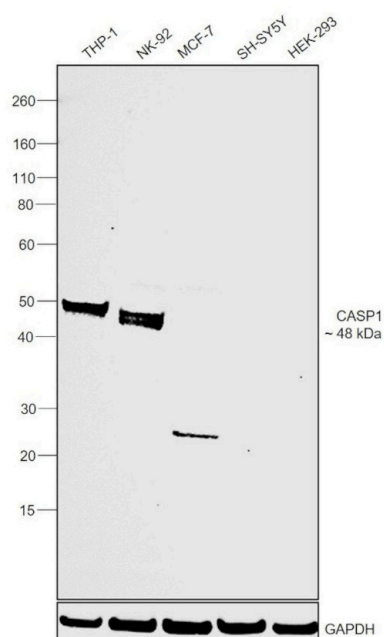
Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Product Images For Caspase 1 Polyclonal Antibody



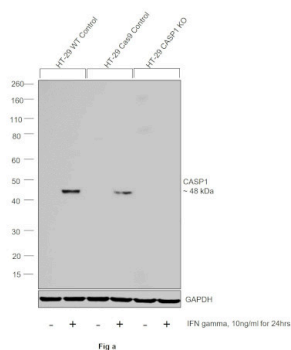
Caspase 1 Antibody (PA5-29342) in WB

Western blot was performed using Anti-Caspase 1 Polyclonal Antibody (Product # PA5-29342) and a 48kDa band corresponding to Caspase 1 was observed across cell lines tested except MCF-7, SH-SY5Y and HEK-293 which is reported to be low. Whole Cell Extract-WCL (30 µg lysate) of THP-1 (Lane 1), NK-92 (Lane 2), MCF7 (Lane 3), SH-SY5Y (Lane 4) and HEK-293 (Lane 5) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:3000 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



Caspase 1 Antibody (PA5-29342)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell lines owing to their inherent genetic constitution. Relative expression of Caspase 1 was observed in THP-1 and NK-92 in comparison to MCF-7, SH-SY5Y and HEK-293 using Anti-Caspase 1 Polyclonal Antibody (Product # PA5-29342) in Western Blot. {RE}



Caspase 1 Antibody (PA5-29342)

Antibody specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. A loss of signal was observed for target protein in Caspase 1 KO cell line compared to control cell line using Anti-Caspase 1 Polyclonal Antibody (Product # PA5-29342). {KO}

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3 References

Western Blot (1)

<p>Proceedings of the National Academy of Sciences of the United States of America</p> <p>A promiscuous inflammasome sparks replication of a common tumor virus.</p> <p>"Published figure using Caspase 1 polyclonal antibody (Product # PA5-29342) in Western Blot"</p> <p>Authors: Burton EM,Goldbach-Mansky R,Bhaduri-McIntosh S</p>	<p>Year</p> <p>2020</p>
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Immunohistochemistry (1)

<p>Archives of pharmacal research</p> <p>Diacerein counteracts acetaminophen-induced hepatotoxicity in mice via targeting NLRP3/caspase-1/IL-1 and IL-4/MCP-1 signaling pathways.</p> <p>"PA5-29342 was used in Immunohistochemistry (Paraffin) to repurpose the anti-arthritic drug diacerein (DCN) for the treatment of acetaminophen hepatotoxicity and investigating the potential underlying mechanisms."</p> <p>Authors: Elshal M,Abdelmageed ME</p>	<p>Year</p> <p>2022</p> <p>Species</p> <p>Mouse</p>
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Immunohistochemistry (Paraffin) (1)

<p>Archives of pharmacal research</p> <p>Diacerein counteracts acetaminophen-induced hepatotoxicity in mice via targeting NLRP3/caspase-1/IL-1 and IL-4/MCP-1 signaling pathways.</p> <p>"PA5-29342 was used in Immunohistochemistry (Paraffin) to repurpose the anti-arthritic drug diacerein (DCN) for the treatment of acetaminophen hepatotoxicity and investigating the potential underlying mechanisms."</p> <p>Authors: Elshal M,Abdelmageed ME</p>	<p>Year</p> <p>2022</p> <p>Species</p> <p>Mouse</p>
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